

# EXHIBIT A

**IN THE UNITED STATES PATENT AND TRADEMARK OFFICE**

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In re Patent Application of:  
Rodolfo R. Llinas et al.

Application No.: 10/627,355

Confirmation No.: 2328

Filed: July 24, 2003

Art Unit: 2129

For: NEURO-MIMETIC CONTROL SYSTEMS  
AND METHODS

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Examiner: P. D. Coughlan

**DECLARATION OF CO-INVENTORS**  
**UNDER 37 C.F.R. § 1.132 AND IN ACCORDANCE WITH IN RE KATZ**

MS AF  
Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

Dear Sir:

I, Rodolfo R. LLINAS, I, Vladislav V. PAPKO, I, Viktor B. KAZANTSEV, I, Vladimir I. NEKORKIN, and I, Vladimir MAKARENKO do hereby declare and state as follows:

1. I am a citizen of either the United States (Rodolfo R. LLINAS) or the Russian Federation (Vladislav V. PAPKO, Viktor B. KAZANTSEV, Vladimir I. NEKORKIN, and Vladimir MAKARENKO) and am more than 21 years of age.

2. I am one of the five co-inventors of the above-identified patent application. I make the following statements on behalf of myself and my co-inventors in support of this application.

3. I have read and am familiar with the instant application as it was filed in the U.S. Patent and Trademark Office (USPTO), the pending claims, and the outstanding Office Action mailed on May 14, 2008 in connection with this application.

4. The co-inventors Rodolfo R. LLINAS, Viktor B. KAZANTSEV, Vladimir I. NEKORKIN, and Vladimir MAKARENKO are co-authors (along with Manuel G. VELARDE) of the article by Velarde, et al., "Modeling inferior olive neuron dynamics" *Neural Networks*, Volume 15, Issue 1, pages 5-10 (January 2002) (herein "the Velarde reference"), which published online on or about November 7, 2001.

5. The Velarde reference published less than 1 year prior to the effective filing date of the instant application (*i.e.*, August 21, 2002).

6. The co-author Manuel G. VELARDE contributed to the Velarde reference by providing administrative coordination of research efforts between the other co-authors. Manuel G. VELARDE also provided non-substantive support which resulted in accelerated preparation of the manuscript and prompt publishing. Manuel G. VELARDE did not contribute to the conception of the claimed invention or make any other inventive contributions in connection with our present patent application.

7. Vladislav V. PAPKO is not a co-author of the Velarde reference. However, this individual contributed to the conception of the claimed invention.

8. I understand that the Velarde reference was relied upon in the May 14, 2008 Office Action to reject claims 12-46 as obvious in combination with "Cerebellar Learning for Control of a Two-Link Arm in Muscle Space" by Fagg et al. under 35 U.S.C. § 103(a). The present declaration is submitted to establish that the Velarde reference describes the Applicants' own work. *See* MPEP § 2132.01.

9. The subject matter of the Velarde reference involves a model for the study of the dynamic properties of the inferior olive neuron. The model described in the Velarde reference is the result of Applicants' own work product, which is disclosed in the instant application.

10. Upon information and belief, the presently claimed invention was conceived and reduced to practice by only Rodolfo R. LLINAS, Vladislav V. PAPKO, Viktor B. KAZANTSEV, Vladimir I. NEKORKIN, and Vladimir MAKARENKO.

11. I further declare that all statements herein of my knowledge are true and that all statements made on information and belief are believed to be true; and further that willful false statements and the like so made are punishable by fine or imprisonment, or both, under § 1001 of Title 18 of the United States Code and that such willful false statements may jeopardize the validity of the present application or any patent issuing thereon.

R Llinas

Nov. 14/2008

Rodolfo R. Llinas

Date

VPAPKO

Vladislav V. Papko

11/14/2008  
Date

BKd2antsev

Viktor B. Kazantsev

11/14/2008  
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NEKORKIN

Vladimir I. Nekorkin

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Date